

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Pictur Cliffs Formation Pictured Cliffs County San Juan
Initial I Annual _____ Special _____ Date of Test August 25, 1959
Company Pan American Petroleum Corporation Lease Heath Gas Unit "F" Well No. 1
Unit B Sec. 9 Twp. 29N Rge. 9W Purchaser El Paso Natural Gas Company
Casing 4-1/2 Wt. 15 I.D. 4.090 Set at 2292 Perf. 2158 To 2192
Tubing 1-1/4 Wt. 3 I.D. 1.380 Set at 2171 Perf. 2161 To 2171
Gas Pay: From 2158 To 2192 L 2158 xG 0.65(Std.) GL 1403 Bar.Press. 12
Producing Thru: Casing I Tubing _____ Type Well Single Gas
Date of Completion: 8-9-59 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 95°F.

OBSERVED DATA

Tested Through (44) (61) (Choke) (None) Type Taps _____

No.	(Line) Size	(Coke) Size	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
			Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2"	16"	142		60°(Std.)	970	60°(Std.)	970	60°(Std.)	3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	Pressure √h _w p _f psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365	156	1.000	0.9608	1.014	1879
2.						
3.						
4.						
5.						

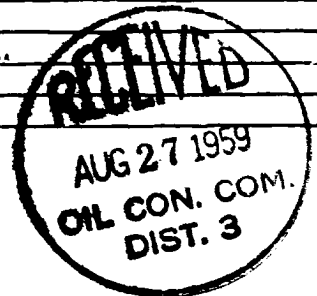
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 962 P_c 964.324

No.	P _w P _t (psia)	F _Q	(F _Q) ²	(F _Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.					28,224	936,100		
2.								
3.								
4.								
5.								

Absolute Potential: 1927 MCFPD; n 0.65
COMPANY Pan American Petroleum Corporation
ADDRESS Box 487, Farmington, New Mexico
AGENT and TITLE R. M. Bauer, Jr., Area Engineer
WITNESSED _____
COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

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